

PATENT ABSTRACTS OF JAPAN

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(54) SOFT CONTACT LENS MATERIAL

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain excellent mechanical strength and durability by polymerizing monomers having specified phosphorylcholine analog groups, monomers copolymerizable with the first monomers, and crosslinking monomers having ≥ 4 functional groups.

SOLUTION: This material is produced by polymerizing monomers having phosphorylcholine analog groups expressed by the formula, monomers copolymerizable with the first monomers, and crosslinking monomers having ≥ 4 functional groups. In the formula, R1 is a hydrogen atom or methyl group, R2 is $(CH_2CHR_6)_n$, $(CH_2CHR_6O)_nCH_2CHR_6$ (wherein R6 is a hydrogen atom or methyl group and n is an integer 1 to 8) or 3-10C hydrocarbon group, m is an integer 2 to 4, and R3 to R5 are 1-8C alkyl groups. As for the monomers expressed by the formula, for example, 2-(meth)acryloyloxyethyl-2-(trimethylammonio)ethylphosphate can be used.

